

Supplementary Material 1. Characteristics of the *Lophophysema eversa* mitogenome

Gene region	Start	End	Length (bp)	Intergenic nucleotides [#]	Start codon	Stop codon	Strand
atp9	122	358	237	2	ATG	TAA	+
cox1	361	1914	1554	-3	ATG	TAA	+
trnQ(ttg)	1912	1982	71	1			+
rrnS	1984	2938	958	-2			+
trnD(gtc)	2937	3002	66	4			+
trnT(tgt)	3007	3073	67	126			+
trnM(cat)	3200	3271	72	0			+
trnG(tcc)	3272	3340	69	0			+
cox2	3341	4072	732	0	ATG	TAG	+
rrnL	4073	5699	1551	-27			+
trnS2(tga)	5673	5741	69	29			+
trnV(tac)	5771	5840	70	255			+
trnL1(tag)	6096	6167	72	0			+
nad4l	6168	6470	303	3	ATA	TAA	+
atp6	6474	7184	711	18			+
cox3	7203	7985	783	37	ATG	TAA	+
nad2	8023	9327	1305	-35	ATG	TAG	+
nad5	9293	11122	1830	-26	ATG	TAA	+
trnF(gaa)	11097	11167	71	0			+
trnC(gca)	11168	11232	65	24			+
nad1	11257	12276	1020	-70	ATG	TAA	+
trnL2(taa)	12207	12275	69	78			+
trnK(ttt)	12354	12426	73	145			+
trnI(gat)	12572	12640	69	36			+
trnY(gta)	12677	12745	69	0			+
trnN(gtt)	12746	12814	69	0			+
cob	12815	13976	1162	-10	ATA	TAG	+
trnS1(gct)	13967	14038	72	20			+
trnP(tgg)	14059	14124	66	0			+
trnR(acg)	14125	14193	69	1			+
nad4	14195	15649	1455	-44	ATG	TAA	+
trnH(gtg)	15606	15675	70	589			+
trnV(tac)	16265	16331	67	116			+
trnW(tca)	16448	16517	70	22			+
trnE(ttc)	16540	16605	66	0			+
nad6	16606	17181	576	-4	ATG	TAA	+
nad3	17178	17537	360	197	ATA	TAA	+
trnA(tgc)	17735	17804	70	532			+
trnL2(taa)	18337	18408	72	2243			+

[#] Negative numbers indicate overlapping nucleotides between adjacent genes.